

IN THE CLAIMS:

Please amend the pending claims 1 to 10 as shown below in marked-up version, and add new claims 11 to 13. In accordance with the revised amendment format now permitted, a clean version of the amended claims has been omitted.

1. (Amended) A corneal surgery apparatus for correcting a refractive error by ablating corneal tissue of a patient's eye with a laser beam comprising:

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(a) laser irradiation means for irradiating the laser beam onto a cornea of the patient's eye;

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[(a)] (b) input means for inputting [refractive power] optical characteristics data on a contact lens for a trial use [used on a trial basis] corresponding to data on prescription provided to the patient's eye; and

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[(b)] (c) calculation means for [converting] determining a correction pattern for the patient's eye based on the inputted [refractive power] optical characteristics data [to obtain] and obtaining ablation control data based on the obtained correction pattern [; and

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(c) control means for controlling an ablation amount of the corneal tissue based on the obtained ablation data].

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2. (Amended) [A] The corneal surgery apparatus according to claim 1, further comprising storage means for storing [the refractive power] each optical characteristics data [in correspondence with] on each of a plurality of kinds of contact [lens] lenses,

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wherein the input means comprises means for inputting an identifier assigned to the contact lens and means for retrieving the [refractive power] optical characteristics data stored in the storage means with reference to the inputted identifier.

3. (Amended) [A] The corneal surgery apparatus according to claim 1, further comprising revising means for revising the inputted [refractive power] optical characteristics data on the contact lens or data on the obtained correction pattern,
calculation

wherein the calculation means [obtain] obtains the ablation control data based on the revised data.

4. (Amended) [A] The corneal surgery apparatus according to claim 1, wherein:

the contact lens includes a contact lens for presbyopic correction; and

the [refractive power] optical characteristics data includes data on a far vision zone[,] and a refractive power on the far vision zone, and data on a near vision zone[,] and a refractive power on the near vision zone.

5. (Amended) [A] The corneal surgery apparatus according to claim 4, further comprising display means for graphically displaying the inputted data on the far vision zone and the near vision zone.

6. (Amended) A correction data determining method of correcting a refractive error by ablating corneal tissue of a patient's eye with a laser beam comprising:

(a) a process in which an ophthalmic examination of the patient's eye including a refractive power inspection is performed, and data on prescription provided to the patient's eye is obtained;

[(a) a process in which a value of correction to be made with a contact lens is obtained based on a result of an ophthalmic examination;]

(b) a process in which a first contact lens [for trial use] having first optical characteristics corresponding to the obtained data on prescription is [selected] prepared [based on the obtained value of correction]; [and]

(c) a process in which the patient's eye is subjected to a trial use of the first contact lens and a result of the trial use is checked; and

Al [(c)] (d) a process in which [refractive power data of the selected contact lens are converted into ablation data for correcting the refractive error], if the trial use of the contact lens bears a good result, a correction pattern for the patient's eye is determined based on the first optical characteristics, and if the trial use of the first contact lens bears a bad result, the patient's eye is subjected to a trial use of a contact lens different from the first contact lens, and a correction pattern for the patient's eye is determined based on optical characteristics of a contact lens which bears a good result.

7. (Amended) [A] The correction data determining method according to claim 6, wherein the contact lens includes a lens geared for a correction pattern in which ablation is carried out with a corneal surgery apparatus for ablating corneal tissue.

8. (Amended) A corneal surgery apparatus for correcting a refractive error by ablating corneal tissue of the patient's eye with a laser beam comprising:

(a) an ablation unit which comprises a laser light source emitting a laser beam and an irradiation optical system for irradiating the emitted laser beam onto a cornea of the patient's eye;

(b) an input unit which inputs [refractive power] optical characteristics data [of] on a contact lens [used on a trial basis] for a trial use corresponding to data on prescription provided to the patient's eye; and

(c) a calculation unit which [converts] determines a correction pattern for the patient's eye based on the inputted [refractive power] optical characteristics data [to obtain] and obtains ablation control data based on the obtained correction pattern[; and

(d) a control unit which controls the ablation unit based on the obtained ablation data].

9. (Amended) [A] The corneal surgery apparatus according to claim 8, wherein the irradiation optical system includes a circular aperture of which opening diameter is changeable, a projecting lens which projects the aperture onto the cornea, a shifting unit which displaces a region to be irradiated with the laser beam from a center of an optical zone on the cornea, and a rotator which rotates the laser beam.

10. (Amended) [A] The corneal surgery apparatus according to claim 9, wherein the irradiation optical system includes a beam restricting unit insertable in and removable from an optical path of the laser beam, the beam restricting unit having a semi-oval aperture which is tilted to a variable angle with respect to an optical axis of the irradiation optical system.

11. (Newly-added) A correction data determining apparatus for a corneal surgery for correcting a refractive error by ablating corneal tissue of a patient's eye with a laser beam, the apparatus comprising:

input means for inputting optical characteristics data on a contact lens for a trial use corresponding to data on prescription provided to the patient's eye; and

calculation means for determining a correction pattern for the patient's eye based on the inputted optical characteristics.

12. (Newly-added) The correction data determining apparatus according to claim 11, wherein the calculation means obtains ablation control data based on the obtained correction pattern.

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13. (Newly-added) The correction data determining apparatus according to claim 11, further comprising storage means for storing each optical characteristics data on a plurality of kinds of contact lenses,

wherein the input means comprises means for inputting an identifier assigned to the contact lens and means for retrieving the optical characteristics data stored in the storage means with reference to the inputted identifier.
